

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	329	("20020139122" "3928961" "5154970" "5202303" "5207053" "5258349" "5328359" "5399324" "5453003" "5618505" "5634784" "6040266" "6048194" "6103149" "6155819" "6358040" "6394791" "6531425")	US-PGPUB; USPAT	ADJ	ON	2007/08/15 15:32
S2	1839	422/177.ccls.	US-PGPUB; USPAT	ADJ	ON	2007/08/14 13:18
S3	24	S1 and two-stage	US-PGPUB; USPAT	ADJ	ON	2007/03/30 09:27
S4	4	"5618505"	US-PGPUB; USPAT	ADJ	ON	2007/03/30 09:29
S5	2	"5618505" and two-stage	US-PGPUB; USPAT	ADJ	ON	2007/03/30 11:03
S6	1250	422/180.ccls.	US-PGPUB; USPAT	ADJ	ON	2007/03/30 11:00
S7	19	S6 and two-stage	US-PGPUB; USPAT	ADJ	ON	2007/03/30 11:00
S8	1	"5618505" and two-stage and oxidation	US-PGPUB; USPAT	ADJ	ON	2007/03/30 11:04
S9	1	oxidation completion stage	US-PGPUB; USPAT	ADJ	ON	2007/03/30 11:05
S10	27	oxidation completion and stage	US-PGPUB; USPAT	ADJ	ON	2007/08/15 08:26
S11	5748	"502".clas. and combustion	US-PGPUB; USPAT	ADJ	ON	2007/03/30 11:24
S12	0	oxidation completion stage and S11	US-PGPUB; USPAT	ADJ	ON	2007/03/30 11:24
S13	1	oxidation completion and S11	US-PGPUB; USPAT	ADJ	ON	2007/03/30 13:37
S14	20	"4838067"	US-PGPUB; USPAT	ADJ	ON	2007/03/30 13:43
S15	12	"4753919"	US-PGPUB; USPAT	ADJ	ON	2007/03/30 13:44
S16	31	"4725411"	US-PGPUB; USPAT	ADJ	ON	2007/03/30 13:44
S17	97	"4711009"	US-PGPUB; USPAT	ADJ	ON	2007/03/30 13:45
S18	44	"4601999"	US-PGPUB; USPAT	ADJ	ON	2007/03/30 14:30
S19	16	"4762567"	US-PGPUB; USPAT	ADJ	ON	2007/03/30 14:30

## EAST Search History

S20	21	"199684"	US-PGPUB; USPAT	ADJ	ON	2007/03/30 15:03
S21	17	"279455"	US-PGPUB; USPAT	ADJ	ON	2007/04/02 08:12
S22	4	"279455" and catalyst	US-PGPUB; USPAT	ADJ	ON	2007/04/02 08:13
S23	329	("20020139122" "3928961" "5154970" "5202303" "5207053" "5258349" "5328359" "5399324" "5453003" "5618505" "5634784" "6040266" "6048194" "6103149" "6155819" "6358040" "6394791" "6531425")	US-PGPUB; USPAT	ADJ	ON	2007/04/03 08:25
S24	104	"422".clas. and cruciform	US-PGPUB; USPAT	ADJ	ON	2007/04/02 08:52
S25	6	"422".clas. and cruciform cross-section	US-PGPUB; USPAT	ADJ	ON	2007/04/02 08:53
S26	537	cruciform cross-section	US-PGPUB; USPAT	ADJ	ON	2007/04/02 08:54
S27	327	"422".clas. and no catalyst	US-PGPUB; USPAT	ADJ	ON	2007/04/02 09:21
S28	54	422/180,177.ccls. and no catalyst	US-PGPUB; USPAT	ADJ	ON	2007/04/02 09:27
S29	2	422/180,177.ccls. and pressure boundary	US-PGPUB; USPAT	ADJ	ON	2007/04/02 10:24
S30	54	("Thomas" near "Lippert").in.	US-PGPUB; USPAT	ADJ	ON	2007/04/02 11:01
S31	32	("Mary" near "Alvin").in.	US-PGPUB; USPAT	ADJ	ON	2007/08/14 13:12
S32	17	("Dennis" near "Bachovchin").in.	US-PGPUB; USPAT	ADJ	ON	2007/04/02 11:01
S33	53	("20020139122" "3928961" "5154970" "5202303" "5207053" "5258349" "5328359" "5399324" "5453003" "5618505" "5634784" "6040266" "6048194" "6103149" "6155819" "6358040" "6394791" "6531425") and (zeolite or perovskite or hexaaluminate)	US-PGPUB; USPAT	ADJ	ON	2007/04/03 09:11
S34	1489	422/177,180.ccls. and (cruciform or cross)	US-PGPUB; USPAT	ADJ	ON	2007/04/03 09:15
S35	1	422/177,180.ccls. and (cruciform or cross) with foam catalytic support	US-PGPUB; USPAT	ADJ	ON	2007/04/03 09:16
S36	4	422/177,180.ccls. and (cruciform or cross) with catalytic support	US-PGPUB; USPAT	ADJ	ON	2007/04/03 09:17
S37	1	422/177,180.ccls. and cruciform with catalytic support	US-PGPUB; USPAT	ADJ	ON	2007/04/03 09:18

## EAST Search History

S38	2	422/177,180.ccls. and cruciform with catalyst support	US-PGPUB; USPAT	ADJ	ON	2007/04/03 09:51
S39	1	422/177,180.ccls. and donut with catalyst support	US-PGPUB; USPAT	ADJ	ON	2007/04/03 09:51
S40	1	donut with catalyst support	US-PGPUB; USPAT	ADJ	ON	2007/04/03 09:51
S41	0	donut with catalytic support	US-PGPUB; USPAT	ADJ	ON	2007/04/03 09:52
S42	9	422/177,180.ccls. and (donut or ring) with catalyst support	US-PGPUB; USPAT	ADJ	ON	2007/04/03 10:44
S43	2	422/177,180.ccls. and transition stage	US-PGPUB; USPAT	ADJ	ON	2007/04/03 10:58
S44	348	422/177,180.ccls. and transition	US-PGPUB; USPAT	ADJ	ON	2007/04/03 11:00
S45	35	422/177,180.ccls. and (transition not metal)	US-PGPUB; USPAT	ADJ	ON	2007/04/03 11:04
S46	23	422/177,180.ccls. and transition section	US-PGPUB; USPAT	ADJ	ON	2007/04/03 13:07
S47	12	422/177,180.ccls. and (molybdenum disilicide or iron-chromium-aluminum or iron aluminide)	US-PGPUB; USPAT	ADJ	ON	2007/04/03 13:48
S48	99	422/177,180.ccls. and (different catalysts)	US-PGPUB; USPAT	ADJ	ON	2007/04/03 14:18
S49	800	422/177,180.ccls. and (pore or porous) and catalyst	US-PGPUB; USPAT	ADJ	ON	2007/04/03 14:18
S50	583	422/177,180.ccls. and (pore or porous) same catalyst	US-PGPUB; USPAT	ADJ	ON	2007/04/03 14:19
S51	3	422/177,180.ccls. and (pore or porous) same catalytic support	US-PGPUB; USPAT	ADJ	ON	2007/04/03 14:22
S52	56	422/177,180.ccls. and (pore or porous) same catalyst support	US-PGPUB; USPAT	ADJ	ON	2007/04/03 14:53
S53	41	422/177,180.ccls. and (tube or tubular) same catalyst support	US-PGPUB; USPAT	ADJ	ON	2007/04/03 15:05
S54	0	422/177,180.ccls. and angular same catalyst support	US-PGPUB; USPAT	ADJ	ON	2007/04/03 15:44
S55	13	422/177,180.ccls. and catalyst near plates and longitudinal	US-PGPUB; USPAT	ADJ	ON	2007/04/03 15:59
S56	2	422/177,180.ccls. and catalyst near plates same longitudinal	US-PGPUB; USPAT	ADJ	ON	2007/04/03 15:47
S57	214	422/177,180.ccls. and catalyst near (honeycomb or lower packing or packed particle)	US-PGPUB; USPAT	ADJ	ON	2007/04/03 16:05
S58	191	422/177,180.ccls. and rich and lean	US-PGPUB; USPAT	ADJ	ON	2007/04/04 10:00

## EAST Search History

S60	10	422/177,180.ccls. and two-stage and rich and lean	US-PGPUB; USPAT	ADJ	ON	2007/04/03 16:06
S61	97	"4711009"	US-PGPUB; USPAT	ADJ	ON	2007/04/04 09:24
S62	2	422/177,180.ccls. and (angled or rotated) near honeycomb	US-PGPUB; USPAT	ADJ	ON	2007/04/04 10:08
S63	1114	422/177,180.ccls. and honeycomb	US-PGPUB; USPAT	ADJ	ON	2007/04/04 10:08
S64	0	422/177,180.ccls. and honeycomb catalytic structure	US-PGPUB; USPAT	ADJ	ON	2007/04/04 10:09
S65	7	422/177,180.ccls. and honeycomb catalyst structure	US-PGPUB; USPAT	ADJ	ON	2007/04/04 10:18
S66	4	422/177,180.ccls. and honeycomb catalyst substrate	US-PGPUB; USPAT	ADJ	ON	2007/04/04 10:20
S67	93	422/177,180.ccls. and honeycomb substrate	US-PGPUB; USPAT	ADJ	ON	2007/04/04 10:56
S76	0	422/177,180.ccls. and (flow mix near catalyst)	US-PGPUB; USPAT	ADJ	ON	2007/04/04 10:58
S77	5	422/177,180.ccls. and (align\$ near catalyst)	US-PGPUB; USPAT	ADJ	ON	2007/04/04 15:08
S78	6	422/177,180.ccls. and rotating honeycomb	US-PGPUB; USPAT	ADJ	ON	2007/04/04 16:21
S79	25	422/177,180.ccls. and catalyst configuration	US-PGPUB; USPAT	ADJ	ON	2007/04/04 16:33
S80	19	422/177,180.ccls. and layered catalyst	US-PGPUB; USPAT	ADJ	ON	2007/04/05 08:04
S81	2	422/177,180.ccls. and multi-stage catalyst	US-PGPUB; USPAT	ADJ	ON	2007/04/05 08:02
S82	0	422/177,180.ccls. and (multiple configuration near catalyst)	US-PGPUB; USPAT	ADJ	ON	2007/04/05 08:02
S83	0	422/177,180.ccls. and (multiple catalyst configuration)	US-PGPUB; USPAT	ADJ	ON	2007/04/12 09:05
S84	7	422/177,180.ccls. and (layered catalyst and longitudinal)	US-PGPUB; USPAT	ADJ	ON	2007/04/05 08:10
S85	849	422/177,180.ccls. and (plate or disk near catalyst)	US-PGPUB; USPAT	ADJ	ON	2007/04/05 11:14
S86	16	"4762567"	US-PGPUB; USPAT	ADJ	ON	2007/04/05 08:12
S87	19	422/177,180.ccls. and layered catalyst	US-PGPUB; USPAT	ADJ	ON	2007/04/05 08:13
S88	7	422/177,180.ccls. and (plate or disk near catalyst) and S87	US-PGPUB; USPAT	ADJ	ON	2007/04/05 08:23
S89	2	422/177,180.ccls. and (rich and lean stage)	US-PGPUB; USPAT	ADJ	ON	2007/04/05 08:24

## EAST Search History

S90	0	422/177,180.ccls. and (rich stage and lean stage)	US-PGPUB; USPAT	ADJ	ON	2007/04/05 08:24
S91	0	422/177,180.ccls. and (rich section and lean section)	US-PGPUB; USPAT	ADJ	ON	2007/04/05 08:25
S92	0	422/177,180.ccls. and rich stage	US-PGPUB; USPAT	ADJ	ON	2007/04/05 08:25
S93	368	422/177,180.ccls. and rich	US-PGPUB; USPAT	ADJ	ON	2007/04/05 08:27
S94	1	422/177,180.ccls. and rich catalytic	US-PGPUB; USPAT	ADJ	ON	2007/04/12 10:00
S95	3	422/177,180.ccls. and rich catalyst	US-PGPUB; USPAT	ADJ	ON	2007/04/05 08:53
S97	18	"6415608"	US-PGPUB; USPAT	ADJ	ON	2007/04/05 08:55
S98	5	"6415608" and rich catalytic	US-PGPUB; USPAT	ADJ	ON	2007/04/05 08:55
S99	13	422/177,180.ccls. and two- stage and rich and lean	US-PGPUB; USPAT	ADJ	ON	2007/04/05 10:10
S100	35	PCI.as.	US-PGPUB; USPAT	ADJ	ON	2007/04/05 10:12
S101	33	(Precision Combustion, INC).as.	US-PGPUB; USPAT	ADJ	ON	2007/04/05 10:13
S102	3	422/177,180.ccls. and catalyst coated (plate or disk)	US-PGPUB; USPAT	ADJ	ON	2007/04/05 12:28
S103	0	422/177,180.ccls. and catalytic disk	US-PGPUB; USPAT	ADJ	ON	2007/04/05 12:29
S104	10	422/177,180.ccls. and catalyst disk	US-PGPUB; USPAT	ADJ	ON	2007/04/05 12:36
S105	21	422/177,180.ccls. and catalyst plate	US-PGPUB; USPAT	ADJ	ON	2007/04/05 12:45
S106	0	422/177,180.ccls. and alternating orientation catalyst	US-PGPUB; USPAT	ADJ	ON	2007/04/05 12:46
S107	0	422/177,180.ccls. and alternating catalyst	US-PGPUB; USPAT	ADJ	ON	2007/04/05 12:47
S108	11	422/177,180.ccls. and (flow rate near catalyst)	US-PGPUB; USPAT	ADJ	ON	2007/04/05 13:23
S109	553	422/177,180.ccls. and flow rate	US-PGPUB; USPAT	ADJ	ON	2007/04/05 13:23
S110	12	422/177,180.ccls. and flow rate control	US-PGPUB; USPAT	ADJ	ON	2007/04/05 13:24
S111	0	422/177,180.ccls. and flow rate percentage	US-PGPUB; USPAT	ADJ	ON	2007/04/05 13:24
S112	5	422/177,180.ccls. and flow rate percent	US-PGPUB; USPAT	ADJ	ON	2007/04/05 14:09

## EAST Search History

S11 3	3	422/177,180.ccls. and two-stage and by-pass	US-PGPUB; USPAT	ADJ	ON	2007/04/05 14:09
S11 4	13	422/177,180.ccls. and two-stage and bypass	US-PGPUB; USPAT	ADJ	ON	2007/04/05 14:10
S11 5	12	422/177,180.ccls. and multiple catalysts	US-PGPUB; USPAT	ADJ	ON	2007/04/12 10:00
S11 6	11	422/177,180.ccls. and different catalytic material	US-PGPUB; USPAT	ADJ	ON	2007/04/12 09:09
S11 7	4	422/177,180.ccls. and catalytic plate	US-PGPUB; USPAT	ADJ	ON	2007/04/12 10:01
S11 8	116	422/177,180.ccls. and catalytic element	US-PGPUB; USPAT	ADJ	ON	2007/04/12 10:02
S11 9	1	422/177,180.ccls. and catalytic element and flow axis	US-PGPUB; USPAT	ADJ	ON	2007/04/12 10:02
S12 0	111	422/177,180.ccls. and catalytic element and flow	US-PGPUB; USPAT	ADJ	ON	2007/04/12 10:02
S12 1	16	422/177,180.ccls. and catalytic element and flow direction	US-PGPUB; USPAT	ADJ	ON	2007/04/12 10:02
S12 2	39987	"431".clas.	US-PGPUB; USPAT	ADJ	ON	2007/04/26 08:10
S12 3	69498	"60".clas.	US-PGPUB; USPAT	ADJ	ON	2007/04/26 08:10
S12 4	39987	S122	US-PGPUB; USPAT	ADJ	ON	2007/04/26 08:11
S12 5	39987	S122	US-PGPUB; USPAT	ADJ	ON	2007/04/26 08:11
S12 6	21	I4,I5 and support	US-PGPUB; USPAT	ADJ	ON	2007/04/26 08:12
S12 7	860	molybdenum disilicide	US-PGPUB; USPAT	ADJ	ON	2007/04/26 08:13
S12 8	13	molybdenum disilicide and metal support	US-PGPUB; USPAT	ADJ	ON	2007/04/26 08:16
S12 9	283	iron-chromium-aluminum	US-PGPUB; USPAT	ADJ	ON	2007/04/26 08:17
S13 0	15	iron-chromium-aluminum and metal support	US-PGPUB; USPAT	ADJ	ON	2007/04/26 08:17
S13 5	6	catalytic converter and transition stage	US-PGPUB; USPAT	ADJ	ON	2007/08/14 13:15
S13 6	2523	(422/177,180).ccls.	US-PGPUB; USPAT	ADJ	ON	2007/08/14 13:22
S13 7	362	(422/177,180).ccls. and transition	US-PGPUB; USPAT	ADJ	ON	2007/08/14 16:56
S13 8	213	(422/177,180).ccls. and transition and oxidation	US-PGPUB; USPAT	ADJ	ON	2007/08/14 14:03

## EAST Search History

S13 9	1	"4870824".pn.	US-PGPUB; USPAT	ADJ	ON	2007/08/14 14:03
S14 0	53	("4870824").URPN.	USPAT	ADJ	ON	2007/08/14 14:10
S14 1	396	catalytic converter and (stage or zone)	EPO; JPO; DERWENT	ADJ	ON	2007/08/14 15:25
S14 2	97	reactor and transition stage	US-PGPUB; USPAT	ADJ	ON	2007/08/14 16:37
S14 3	2	(422/177,180).ccls. and transition stage	US-PGPUB; USPAT	ADJ	ON	2007/08/14 16:57
S14 4	0	catalytic converter and transition stage	EPO; JPO; DERWENT	ADJ	ON	2007/08/14 16:58
S14 5	1	catalytic converter and transition zone	EPO; JPO; DERWENT	ADJ	ON	2007/08/14 17:00
S14 6	1	"5549873".pn.	US-PGPUB; USPAT	ADJ	ON	2007/08/14 17:00
S14 7	4	("5549873").URPN.	USPAT	ADJ	ON	2007/08/15 16:18
S14 8	10	("3524548"   "3859421"   "3893917"   "4265659"   "4851304"   "5093289"   "5124040"   "5180409"   "6254998").PN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/08/15 08:02
S14 9	2	10/362751	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/08/15 08:03
S15 0	2575	fay.in.	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/08/15 08:03
S15 1	3	fay.in. and ceramic and foam	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/08/15 08:03
S15 2	11	"5228847"	US-PGPUB; USPAT	ADJ	ON	2007/08/15 08:34
S15 3	1	"5183401".pn.	US-PGPUB; USPAT	ADJ	ON	2007/08/15 08:34
S15 4	2	10/797456	US-PGPUB; USPAT	ADJ	ON	2007/08/15 15:32
S15 5	1	10/797455	US-PGPUB; USPAT	ADJ	ON	2007/08/15 15:34
S15 6	1	combustor and two stage and transition stage	US-PGPUB; USPAT	ADJ	ON	2007/08/15 16:19
S15 7	20	combustor and two stage and transition zone	US-PGPUB; USPAT	ADJ	ON	2007/08/15 16:23
S15 8	3	combustor and catalyst and two stage and transition zone	US-PGPUB; USPAT	ADJ	ON	2007/08/15 16:26

## EAST Search History

S15 9	0	combustor and catalyst and two stage and transition zone	EPO; JPO; DERWENT	ADJ	ON	2007/08/15 16:26
S16 0	0	combustor and catalyst and stage and transition zone	EPO; JPO; DERWENT	ADJ	ON	2007/08/15 16:26
S16 1	0	combustor and catalyst and transition zone	EPO; JPO; DERWENT	ADJ	ON	2007/08/15 16:26
S16 2	0	combustor and transition zone	EPO; JPO; DERWENT	ADJ	ON	2007/08/15 16:26
S16 3	33	catalyst and transition zone	EPO; JPO; DERWENT	ADJ	ON	2007/08/15 16:37
S16 4	0	(dalla-betta).in.	US-PGPUB; USPAT	ADJ	ON	2007/08/15 16:38
S16 5	41	(dalla betta).in.	US-PGPUB; USPAT	ADJ	ON	2007/08/15 16:38
S16 6	0	(dalla betta).in. and transition zone	US-PGPUB; USPAT	ADJ	ON	2007/08/15 16:38
S16 7	0	(dalla betta).in. and transition stage	US-PGPUB; USPAT	ADJ	ON	2007/08/15 16:38